


## Query/Command : prt max legalall


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1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** -  US6542143 B1 20030401 [US6542143]  
**TI** - (B1) Method and apparatus for driving the display device, display system, and data processing device  
**PA** - (B1) SEIKO EPSON CORP (JP)  
**PA0** - Seiko Epson Corporation, Suwa [JP]  
**IN** - (B1) OZAWA TOKUROH (JP)  
**AP** - US94552298 19980205 [1998US-0945522]  
**FD** - PCT/JP97/00609 19970228 [1997WO-JP00609]  
WO97/32295 19970904 [WO9732295]  
**PR** - JP6730496 19960228 [1996JP-0067304]  
WOJP9700609 19970228 [1997WO-JP00609]  
**IC** - (B1) G09G-003/36 H04N-005/202  
**EC** - G09G-003/36C14A  
**ICO** - S09G-201/02  
S09G-202/16  
**PCL** - ORIGINAL (O) : 345098000; CROSS-REFERENCE (X) : 345089000  
345092000 345205000 348674000 348792000  
**DT** - Basic (replaces original non EP official language basic.)  
**CT** - US4845482; US4873516; US5250931; US5604511; US5625373; US5739816;  
US5764216; US5796384; US5933199; US5940057; US6023257; GB2-217-128;  
JP57052228 A; JP58097918 A; JP59107628 A; JP6210696 A; JP6382228 U;  
JP1233919 A; JP335218 A; JP389393 A; JP3190429 A; JP3214818 A; JP411282  
A; JP4502520 A; JP4-195189; JP4268818 A; JP5102857 A; JP5281920 A;  
JP5303080 A; JP6059648 A; JP695619 A; JP6152424 A; JP6222741 A;  
JP6268522 A; JP7295520 A; JP7295521 A; JP8237125 A; JP8286641 A  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**AB** - It is an object to provide a high-performance display element driving device or the like which can be easily reduced in power consumption and scale. A display element driving device (100) drives a liquid crystal serving as a capacitive display element. A D/A converter (110) includes first to Nth charge storage sections (112-1) to (112-N) for receiving first to Nth digital data corresponding an image signal and storing charges corresponding to the values of the first to Nth digital data, and first to Nth connection sections (114-1) to (114-N) for electrically connecting the first to Nth charge storing sections (112-1) to (112-N) and an electrode line (130) to each other and discharging the stored charges to the electrode line (130) at a given timing. In this manner, GAMMA -correction of a liquid crystal and D/A conversion can be simultaneously performed, and conversion from RGB to YUV and D/A conversion can be simultaneously performed.  
**UP** - 2003-15


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1 / 1 LGST - ©EPO

**PN** -  US6542143 B1 20030401 [US6542143]  
**AP** - US94552298 19980205 [1998US-0945522]  
**ACT** - 20050913 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040203  
**UP** - 2005-37

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*1 / 1 CRXX - ©CLAIMS/RRX*

**PN** -  6,542,143 A 20030401 [US6542143]  
**PA** - Seiko Epson Corp JP  
**ACT** - 20040203 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20050913  
REISSUE REQUEST NUMBER: 10/773703  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2673

Reissue Patent Number:

Search statement 3

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6542143

April 1, 2003

**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: ALL**

Method and apparatus for driving the display device, display  
system, and data processing device

REISSUE: February 3, 2004 - Reissue Application filed Ex. Gp.: 2673; Re. S.N.  
10/773,703 (O.G. September 13, 2005)

APPL-NO: 945522 (08)

FILED-DATE: February 5, 1998

GRANTED-DATE: April 1, 2003

CORE TERMS: digital, voltage, display, converter, storage, electrode, driver,  
capacitor, conversion, driving ...

**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: CASES**

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6,542,143 OR 6542143

**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: JNLS**

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**LEXIS-NEXIS**  
**Library: PATENTS**  
**File: CURNWS**

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Access DB#

173194

## SEARCH REQUEST FORM

Scientific and Technical Information Center

EIC 2600

Requester's Full Name D. BOST Examiner # 68951 Date \_\_\_\_\_  
Art Unit 2600 Phone Number \_\_\_\_\_ Serial Number 10/773703  
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Please state how the terms or keyword strings should relate to one another.

Title of the Invention \_\_\_\_\_

Inventor(s) \_\_\_\_\_

US 6,542,143

Earliest Priority date to be used \_\_\_\_\_

Lit. Search

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Date completed \_\_\_\_\_  
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Online Time 30

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Courtlink 440.00  
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